INTERNATIONAL SEARCH REPORT

International application No.

			PCT/JP2004/004650		
A. CLASSIFICATION OF SUF Int.Cl ⁷ H01L27/					
According to International Patent	Classification (IPC) or to both nation	nal classification and IP	C		
B. FIELDS SEARCHED			·		
Minimum documentation searche	d (classification system followed by	classification symbols)			
Int.Cl' H01L2//	105, 27/22, 29/78		•		
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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched					
Jitsuyo Shinan Koho Kokai Jitsuyo Shina		Jitsuyo Shinan T Yoroku Jitsuyo S		1996-2004 1994-2004	
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	ring the international search (name of	f data base and, where p	racticable, search te	rms used)	
C. DOCUMENTS CONSIDERI	D TO BE RELEVANT	· .			
.Category* Citation c	f document, with indication, where a	appropriate, of the releva	ant passages	Relevant to claim No.	
X JP 57-68		-),		1-4	
	, 1982 (26.04.82),			• !	
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	in the continuation of Box C.	See patent fam			
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance		date and not in co		mational filing date or priority tion but cited to understand vention	
"E" earlier application or patent but published on or after the international				aimed invention cannot be	
filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means		step when the doc "Y" document of parti	considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination		
		combined with on			
	international filing date but later than	being obvious to	a person skilled in the r of the same patent fa	art	
Date of the actual completion of the international search Date of mailing of the international search				h report	
25 June, 2004 (25.06.04)			2004 (13.0		
Name and mailing address of the IS	Authorized officer	·			
Japanese Patent Office					
		(T) 1 37			

Facsimile No.
Form PCT/ISA/210 (second sheet) (January 2004)

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Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)
This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons: 1. Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. Claims Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3. Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)
This International Searching Authority found multiple inventions in this international application, as follows:
(See extra sheet.)
·
1. As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. X No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: 1-4
Remark on Protest The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.

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Continuation of Box No.III of continuation of first sheet(2)

There must exist a special technical feature so linking a group of inventions of claims as to form a single general inventive concept in order that the group of inventions may satisfy the requirement of unity of invention. However, the group of inventions of claims 1-37 are linked only by the technical feature that "...comprises a memory medium capable of holding information, control unit for recording information in the memory medium, and a sensing element for reading information from the memory medium, and the sensing element is independent of the memory medium".

However, this technical feature cannot be a special technical feature since it is disclosed in prior art documents such as JP 57-68092 A (Hitachi, Ltd.) 26 April, 1982 (26.04.82).

Therefore, there exists no special technical feature so linking the group of inventions of claims 1-37 as to form a single general inventive concept. Consequently, it appears that the group of inventions of claims 1-37 do not satisfy the requirement of unity of invention. Therefore, the inventions of claims 1-37 are divided into two groups of inventions: the inventions of claims 1-27, 29-34, 36, 37; and the inventions of claims 28, 35.

Further examining the group of inventions of claims 2-27, 29-34, 36, 37 referring to claim 1, the inventions are linked only by the technical feature that "the memory medium is a magnetic body, the control unit has a first magnetic field generating section for varying the magnetized state of the magnetic body by applying a magnetic field to the magnetic body, and the sensing element is disposed near the magnetic body and has a magnetic-to-electric conversion section having an electric characteristic varying with the magnetized state of the magnetic body". However, this technical feature cannot be a special technical feature since it is disclosed in the above mentioned prior art document.

Therefore, there exists no special technical feature so linking the group of inventions of claims 2-27, 29-34, 36, 37 as to form a single general inventive concept. Consequently, it appears that the inventions of claims 2-27, 29-34, 36, 37 do not satisfy the requirement of unity of invention.

Therefore, the inventions of claims 2-27, 29-34, 36, 37 are apparently divided into fifteen groups of inventions: the inventions of claims 2-6, 26, 27, 32-34; the inventions of claims 7-18; the inventions of claims 19-25; and the inventions of 29-31, 36, 37.

Further examining the group of inventions of claims 3-6, 26, 27, 32-34 referring to claim 2, the inventions are linked only by the technical feature that "the magnetic-to-electric conversion section includes a magnetic-to-electric conversion element having an electrical characteristic varying with the state of the magnetic field to be sensed, and the magnetic-to-electric conversion element is disposed near the magnetic body so as to sense the magnetic flux generated by the magnetic body".

However, this technical feature cannot be a special technical feature since it is disclosed in the above mentioned prior art document.

Therefore, there exists no special technical feature so linking the group of inventions of claims 3-6, 26, 27, 32-34 as to form a single general inventive concept. Consequently, it appears that the inventions of claims 3-6, 26, 27, 32-34 do not satisfy the requirement of unity of invention.

Therefore, the inventions of claims 3-6, 26, 27, 32-34 are divided into three groups of inventions: the inventions of claims 3, 4; the inventions of claims 5, 6, 26, 27; (Continued to extra sheet.)

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Continuation of Box No.III of continuation of first sheet (2)

and the inventions of claims 32-34.

Consequently, this international application contains eighteen groups of inventions: the inventions of claims 1-4; the inventions of claims 5, 6, 26, 27; the invention of claim 7; the invention of claim 8; the invention of claim 9; the invention of claim 10; the invention of claim 11; the invention of claim 12; the invention of claim 13; the invention of claim 14; the invention of claim 15; the invention of claim 16; the invention of claim 17; the invention of claim 18; the inventions of claims 19-25; the inventions of claims 29-31, 36, 37; the inventions of claims 28, 35; and the inventions of claims 32-34.

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